P-027

Police Modifier Bulletin

SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

E-Mail via website: www.fleet.ford.com/truckbbas (click "Contact Us")

Toll-free: (877) 840-4338

Date: 31 October, 2017

Police Interceptor Utility Rear Spoiler Mounted Lighting

Models Affected

2013MY and beyond Police Interceptor Utility vehicles

Background

Studies have indicated that under heavy acceleration and higher speeds, improperly sealed rear spoilers on Police Interceptor Utility vehicles may allow exhaust gas to enter the cabin area.

Purpose

This bulletin provides a list of rear spoiler mounted emergency lighting solutions that have demonstrated ability for the rear spoiler to properly seat flush to the liftgate. A flush mounted rear spoiler enables seals to function as designed preventing exhaust gas from entering the vehicle cabin.

Following are rear spoiler/liftgate emergency lighting offerings that allow the rear spoiler to seat flush with the liftgate. In addition, wire routing under the rear spoiler must not disrupt the sealing capability of the gaskets that seal the cabin from the external environment. Proper care and due diligence must be used on all openings at any location on the vehicle from the dash panel to rear of the vehicle.

See Field Service Action (FSA) 17B25 for a complete description of all actions included for that publication.

Emergency Lights Allowing Rear Spoiler to Set Flush to Liftgate

Following rear emergency light mounting solutions have been reviewed to enable the rear spoiler to set flush to liftgate that would enable seals to prevent exhaust gas from entering the vehicle cabin. Ford has not performed testing or analysis on the components listed. It is critical during the upfit process that due care and diligence is taken to ensure that clips, seals/gaskets, and wire routing do not prevent sealing of the cabin from the external environment.

The following list will be updated as information becomes available.

Whelen

Part/Model Number	Description	Availability
OEWS34	Use ION LEDs	Currently available
OELS34	Use ION LEDs	Currently available
OE34UR6	Use ION LEDs	Currently available

Federal Signal

Part/Model Number	Description	Availability
MPSM6-FPIURS2	Bracket Kit, (6) MPS600 or (6) MPS600U	Currently available
MPSM6-FPIURS	Bracket Kit, (2) MPS600 or (2) MPS600U	Currently available

Code 3

Part/Model Number	Description	Availability
CITEZPIU-XXXX-XXX*	Citadel EZ Mount	November 30, 2017

***** First four XXXX digits refer to light head color, digits 5-7 refer to controller / flash variation

If installation of rear liftgate/spoiler mounted emergency lighting or wire routing requires removal of the rear spoiler, use rear spoiler sealing kit (Part Number: HB5Z-78442K03-A) when reinstalling the spoiler.

Police Interceptor Utility Rear Spoiler Sealing

For Police Interceptor Utility vehicles equipped, or formerly equipped with rear spoiler mounted emergency lights, use the following procedure to when replacing those lights to ensure liftgate spoiler sealing systems are properly installed.
If the spoiler has been previously removed, Ford can only ensure proper sealing of the spoiler when aftermarket lighting and/or equipment are removed and the spoiler is resealed using Liftgate Spoiler Kit Part Number: HB5Z-78442K03-A. See Figure 1

SPOILER SEALING KIT COMPONENTS
Liftgate Spoiler Kit Part Number: HB5Z-78442K03-A
SUPPLEMENTAL LIFTGATE TOWER FOAM SEAL
3X LOCATING PIN SEALS
4X RETENTION CLIPS
LIFTGATE SPOILER TOWER FOAM SEAL
1766X

Figure 1

Following is the removal and installation procedure.

SERVICE PROCEDURE

NOTE: To view a video demonstration of key inspection and repair procedures.

1. Inspect the rear half of the vehicle for police or aftermarket up-fitter equipment such as: interior or exterior lighting or up-fitter wiring that crosses from the interior to the exterior of the vehicle (inspect liftgate opening).

NOTE: Do not use silicones, RTVs or caulks during this repair.

NOTE: ***Any and all holes created which are exposed directly or indirectly to outside air MUST BE completely sealed using Motorcraft Seam Sealer (TA-2-B).***

NOTE: Aftermarket lighting and/or equipment mounted to the liftgate spoiler can compromise vehicle sealing and create a leak path for exhaust to enter the vehicle. Ford recommends removal or replacement of any aftermarket lighting and/or equipment mounted to the spoiler to prevent a potential path for exhaust to enter the vehicle.

NOTE: Appearance may vary by lighting manufacturer.

2. Inspect the rear spoiler for any of the following:

a. Is there aftermarket lighting or other equipment mounted to the spoiler? For examples, see Figures 4 and 5.

b. Has the spoiler or vehicle been painted?

NOTE: All Police Interceptor Utility Spoilers are painted black from the factory.

c. Is the spoiler damaged or have any holes drilled through it?

d. Is any aftermarket wiring routed to the spoiler?

Yes – Proceed to the Liftgate Spoiler Removal, Installation and Sealing Procedures.

Recommended Tool List

1/4" Drive Ratchet (Power Tool & Hand Tool)
1/4" Drive 6 in (152 mm) Extension
1/4" Drive 7mm Shallow Socket
1/4" Drive Torque Wrench
3/8” Drive Ratchet (Power Tool and Hand Tool)
3/8” Drive 6 in (152 mm) Extension
3/8” Drive 13 mm 12 Point Socket
3/8” Drive Torque Wrench
Flat Faced Sheet Metal Hammer
Applicator Brush (Anti Corrosion Application)

Figure 2

Figure 3

Figure 4

Figure 5

LIFTGATE SPOILER REMOVAL

NOTE: *Removal steps in this procedure may contain installation details.*

1. **NOTE:**

   If equipped with police package, on both sides.
   Remove the retainers and the light covers.

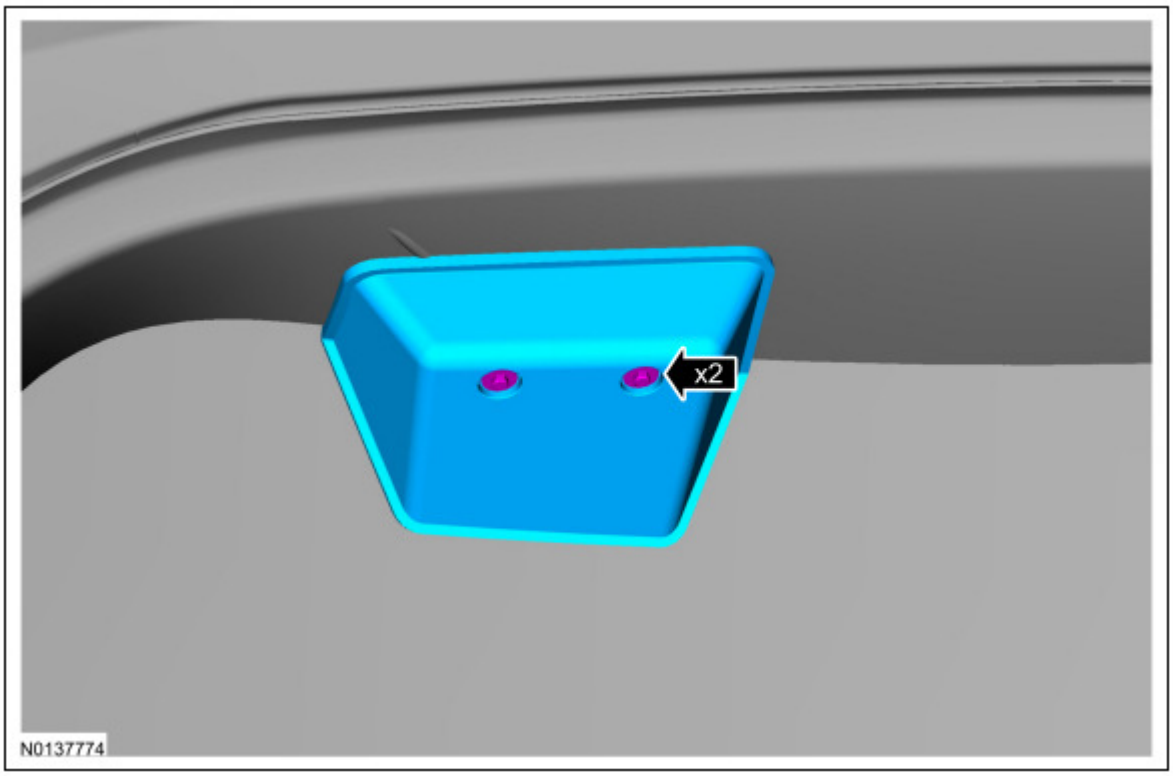

Figure 6

Release the clips and remove the upper liftgate trim panel.

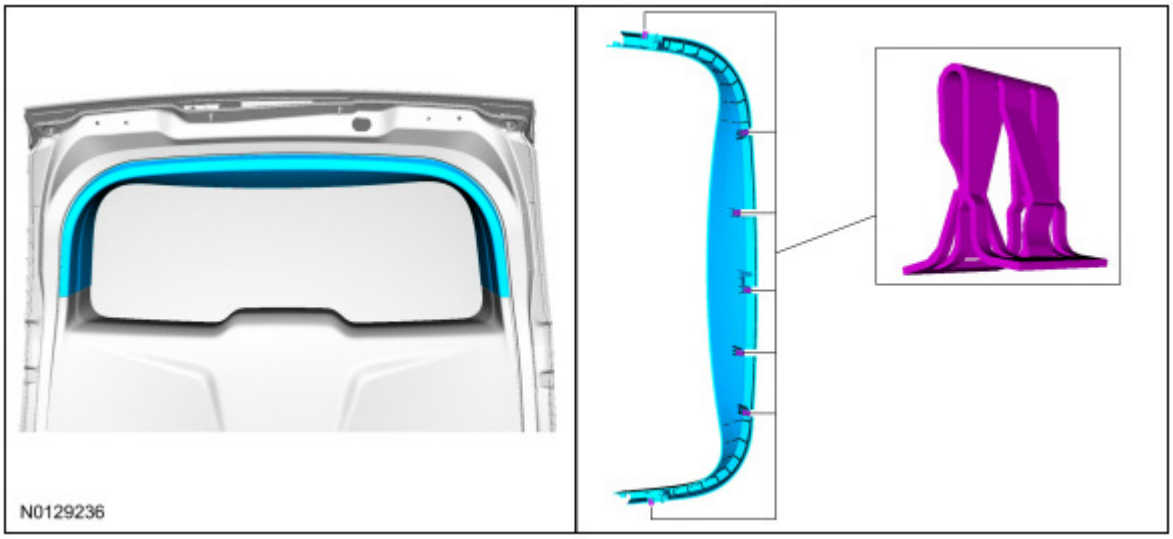

Figure 7

Disconnect the washer hose and electrical connector.

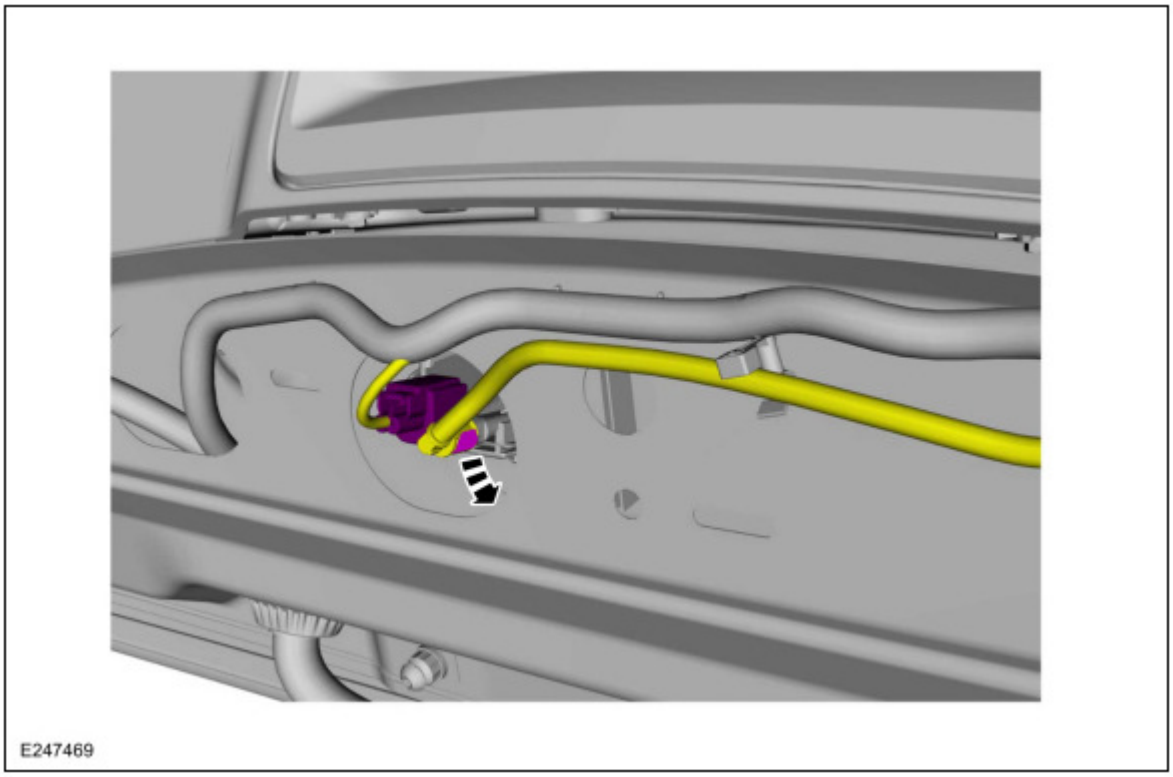

Figure 8

4. Remove the spoiler to liftgate fasteners.
   Torque: 55 lb.in (6.2 Nm)

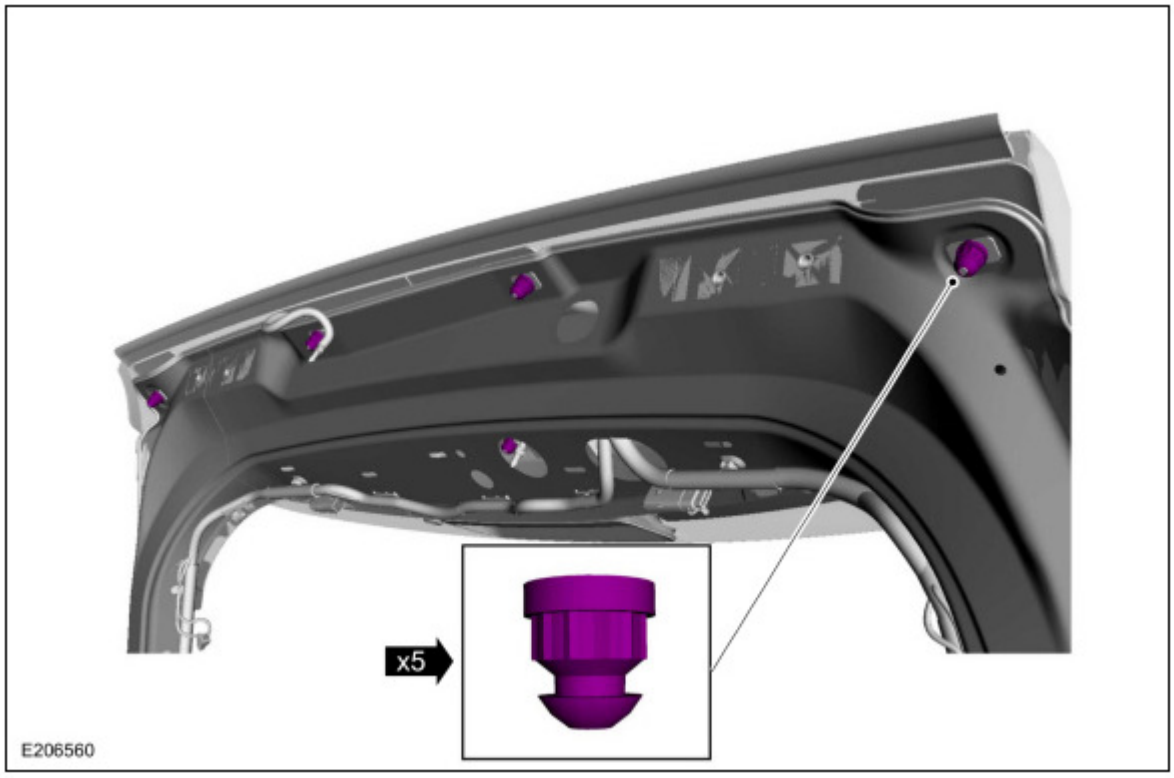

Figure 9

NOTE: *Outer panel of spoiler removed from view for clarity.*

Using a non-marring trim tool, disengage the retainer clips.

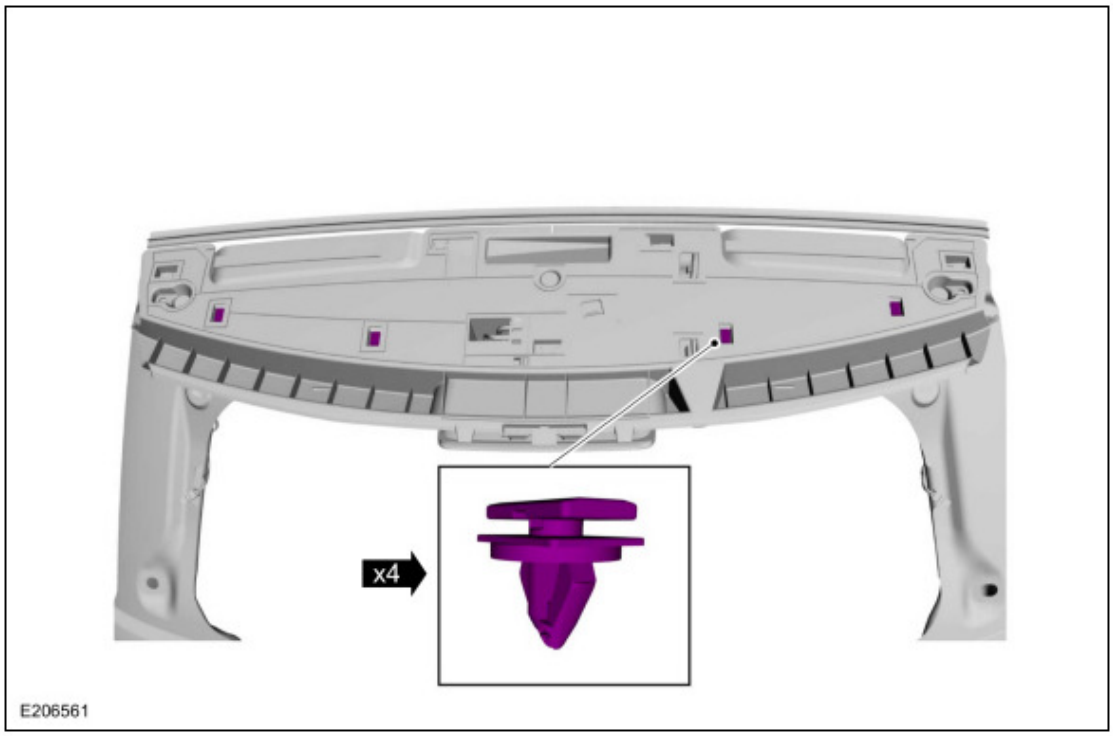

Figure 10

Remove the spoiler assembly.

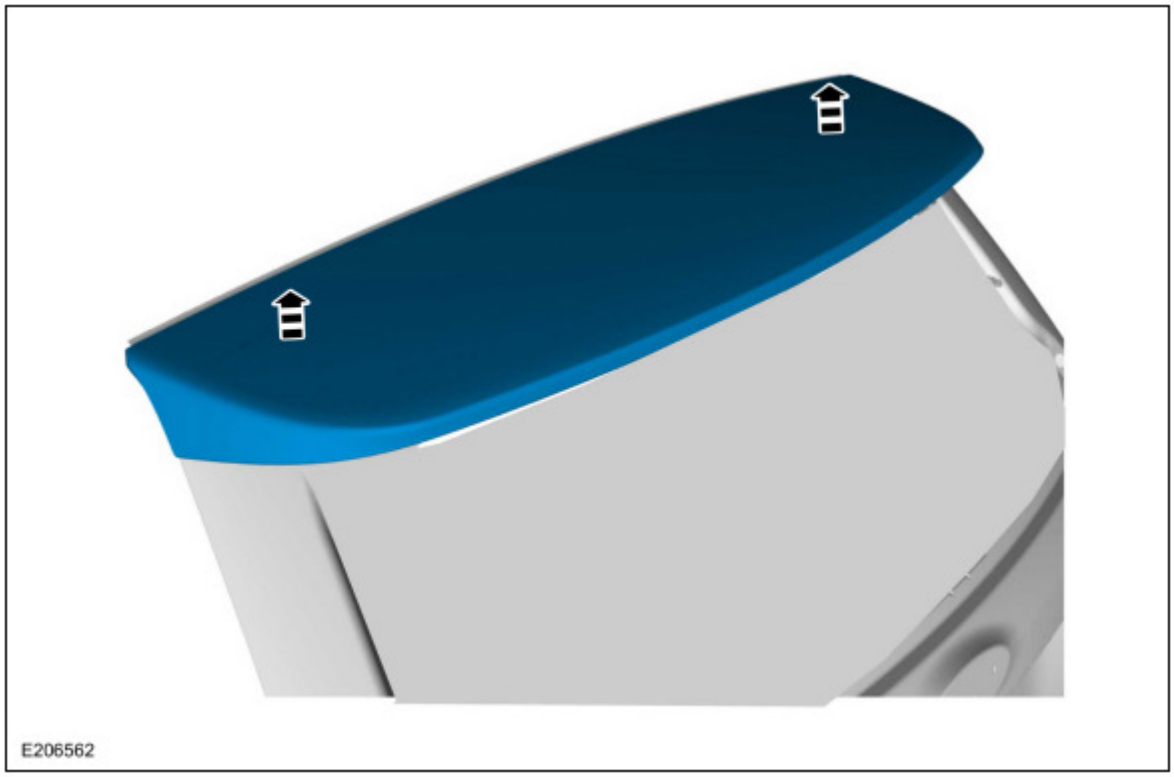

Figure 11

LIFTGATE SPOILER INSTALLATION

1. To install, reverse the removal procedure.

1. Inspect for any aftermarket wiring pass-throughs/holes that could affect the sealing ability of the spoiler.

See Figures 12a and 12b.

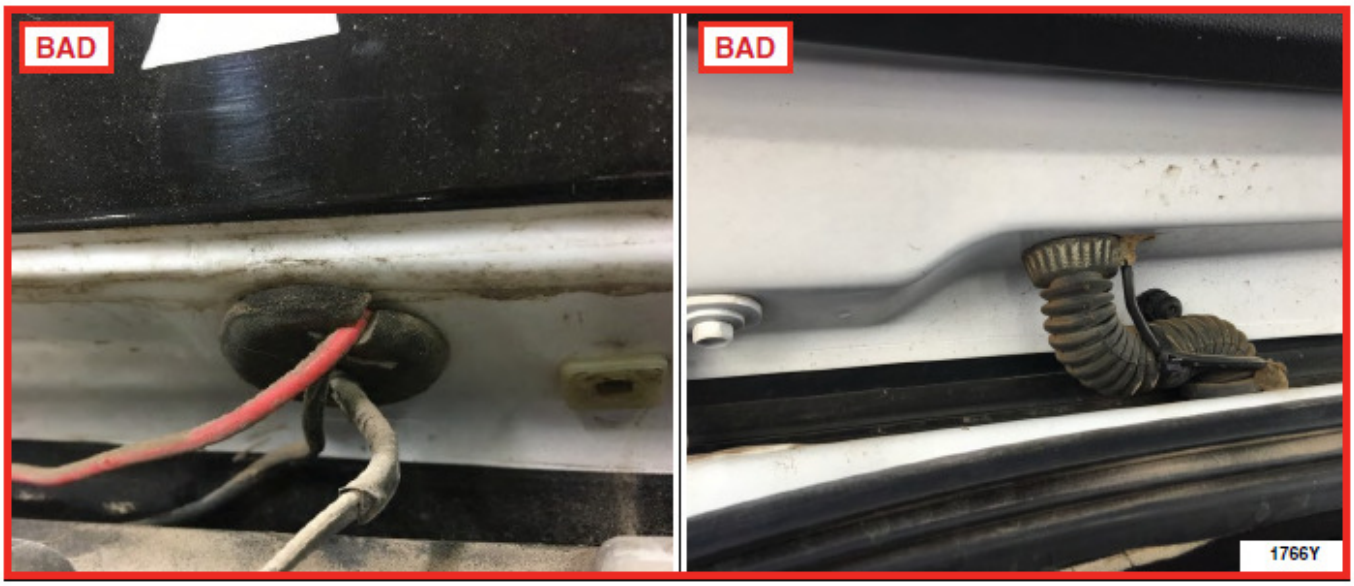

Figure 12a **Figure 12b**

2. **Seal any leak paths created by the aftermarket wiring pass throughs/holes in the spoiler area with Motorcraft® TA-2-B seam sealer or equivalent.**

3. **Remove the liftgate spoiler tower foam seal. See Figure 13.**

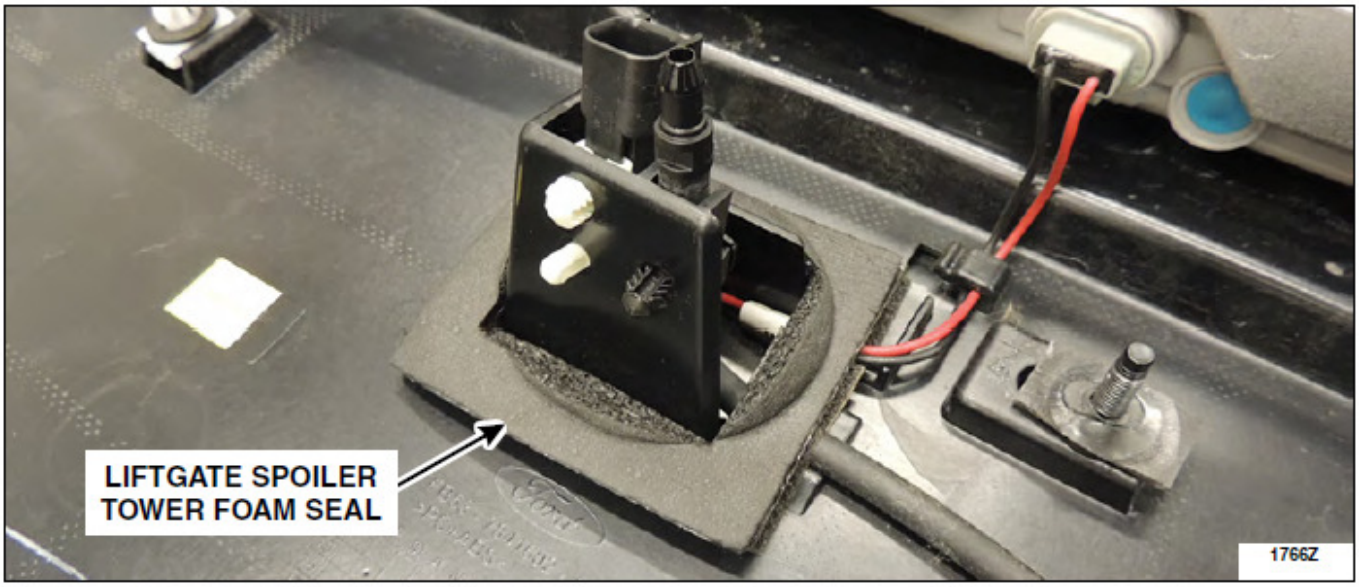

Figure 13

4. Install a new supplemental liftgate spoiler tower seal underneath the wiring and washer line. Make sure the slot in the seal is aligned with the raised channel on the spoiler. See Figure 14

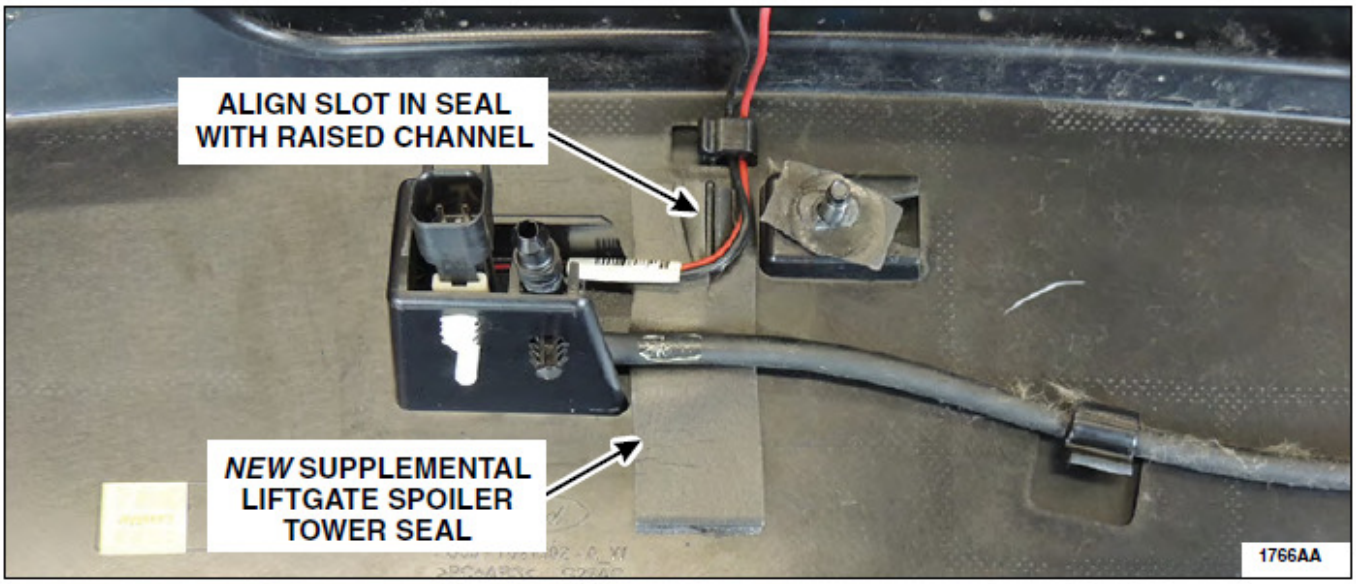

Figure 14

5. Install a new liftgate spoiler tower seal. The flat edge of the seal must be aligned with the raised channel on the spoiler.

See Figures 15a and 15b.

NOTE: Make sure the wiring and washer line are properly routed under the seal.

NOTE: Apply Ford sealant (TA-2-B) along the sealing surface of the liftgate tower seal. Make sure the tower seal is installed as flat as possible, using even pressure around the perimeter to ensure a smooth wrinkle free seal.

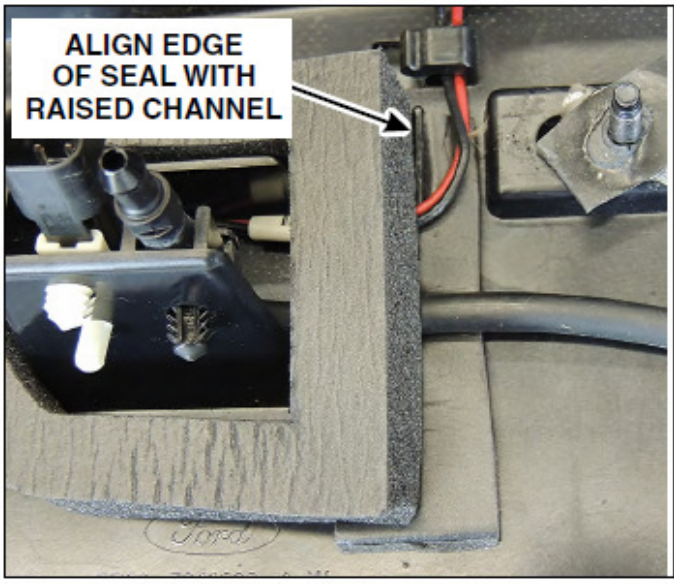

Figure 15a

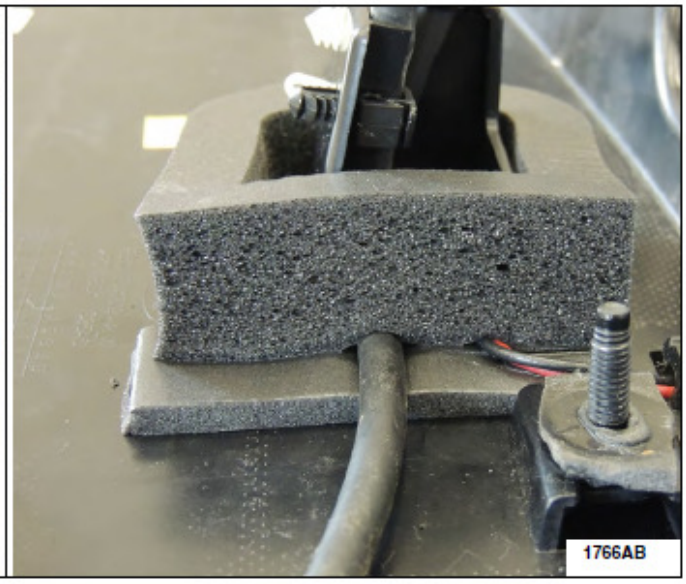

Figure 15b

7. Install four new retention clips/foam seals and three locating pin seals. See Figure 16.

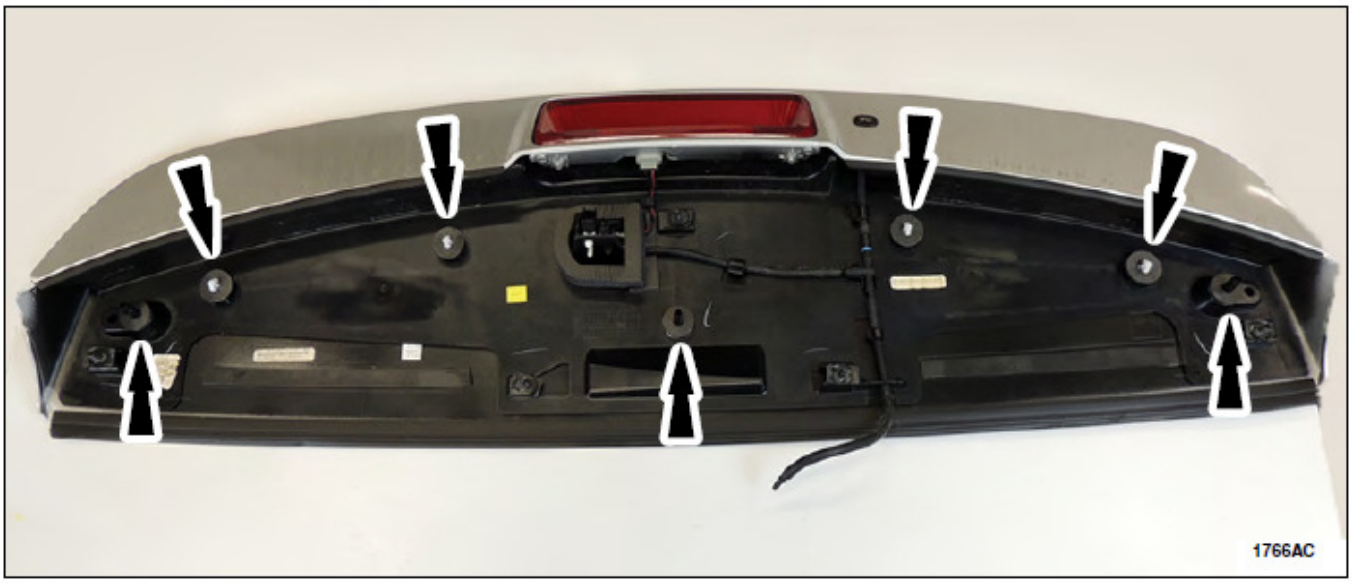

Figure 16

6. Using a flat faced hammer, carefully straighten any deformed spoiler retaining clip mounting holes and apply Motorcraft® PM13A sealer. See Figure 17 and 18.

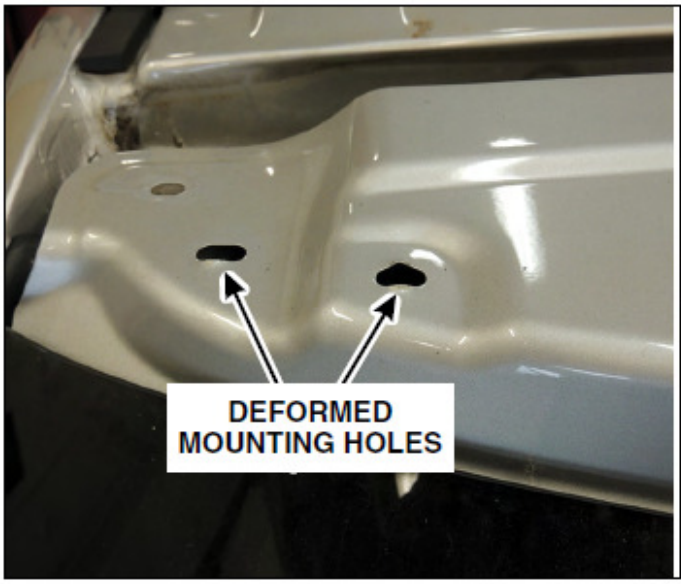

Figure 17

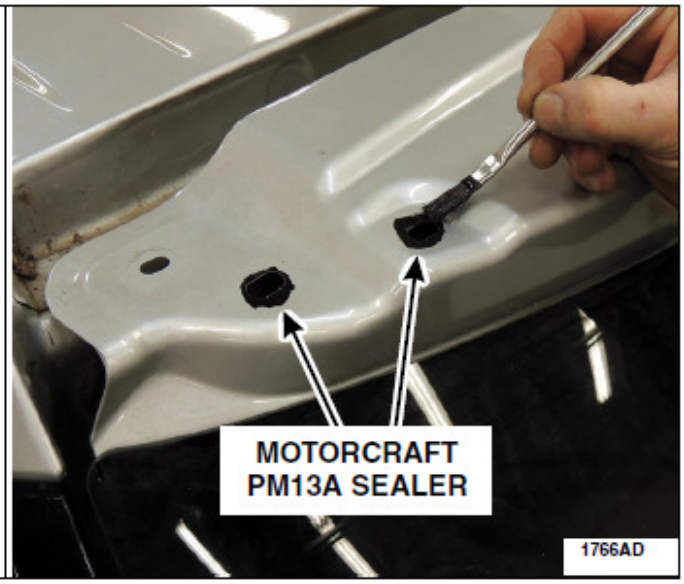

Figure 18

7. Leaving the liftgate trim panel, aftermarket light bar, and other accessories removed, install the liftgate spoiler. Please reverse the aforementioned liftgate spoiler removal process for reinstallation.

If you have any questions, please contact the Ford Truck Body Builders Advisory Service as shown in the header of this bulletin.